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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/790,307	03/01/2004	Jae-Bum Cho	8836-233 (IB12286-US)	9318
7590 08/11/2004		EXAMINER		
Frank Chau F. CHAU & ASSOCIATES, LLC			PHAN, DAO LINDA	
Suite 501		ART UNIT	PAPER NUMBER	
1900 Hempstead Turnpike East Meadown, NY 11554			3662	
· · · · · · · · · · · · · · · · · · ·			DATE MAILED: 08/11/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	<i> </i> ^^				
Office Action Summary	10/790,307	CHO, JAE-BUM					
Office Action Summary	Examiner	Art Unit					
The MAIL IND DATE - FILE	Dao L. Phan	3662					
The MAILING DATE of this communication app Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from	imely filed nys will be considered timely. n the mailing date of this communica	ation.				
Status							
1) Responsive to communication(s) filed on <u>01 March 2004</u> .							
	2a) This action is FINAL . 2b) ⊠ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>9-12</u> is/are allowed.							
6)⊠ Claim(s) <u>1-8</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1 121(d)							
11)☐ The oath or declaration is objected to by the Exa	miner. Note the attached Office	Action or form PTO-152.	` ,				
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign p a)⊠ All b)□ Some * c)□ None of:	riority under 35 U.S.C. § 119(a)	-(d) or (f).					
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No.							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachma-4(-)							
Attachment(s) 1) Notice of References Cited (PTO-892)							
2) U Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)	(PTO-413)					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) L Notice of Informal Pa	atent Application (PTO-152)					
S. Patent and Trademark Office	6) Other:						

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- 1. Figure 3 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.121(d)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 2. Claim 1, line 2, "GSP" is objected to because it's misspelled. Appropriate correction is required.
- 3. The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this
 Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Sanderford et al (Pat. No. 6,084,547).

Sanderford et al teach a hybrid navigation system including a GPS signal processor (102; 100; col 10, lines 6-29; fig. 11) for receiving GPS signals from satellites to determine positions of the mobile terminal, a TDOA signal processor (col 5, lines 54-63; col 15, lines 52-58; col 17, line 60-col 18, line 10) for receiving localization signals from stations of the mobile communication system to

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determine positions of the mobile terminal, and a neural network (abstract; fig. 5) for learning and predicting the positions of the mobile terminal based on signals received from the GPS signal processor and the TDOA signal processor.

- 5. Claims 9-12 are allowed.
- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dao L. Phan whose telephone number is (703)306-4167. The examiner can normally be reached on M-F 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tarcza Thomas can be reached on (703)306-4171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PATENT EXAMINER